

# Protection meets an almost reflection-free view

SCHOTT radiation shielding glasses RD 30<sup>®</sup> and RD 50<sup>®</sup> with SCHOTT AMIRAN<sup>®</sup>

## A good, clear view

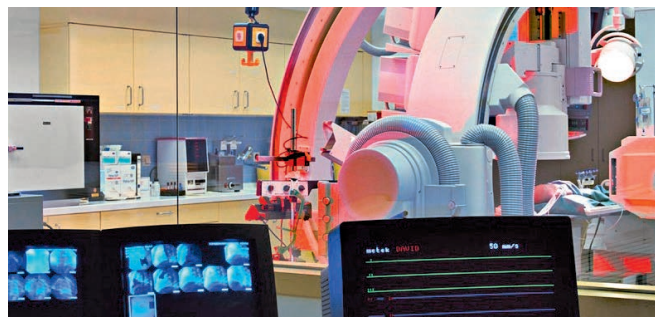
The combination of SCHOTT radiation shielding glass RD 50<sup>®</sup> or RD 30<sup>®</sup> with the anti-reflective glass SCHOTT AMIRAN<sup>®</sup> opens up new possibilities for architects, planners, device manufacturers, outfitters and accessories suppliers in the field of radiation protection windows/doors, because the reflections in comparison to conventional radiation shielding glass can be reduced to a minimum.

## Properties and glass structure

The laminated glass AMIRAN<sup>®</sup>/RD glass/AMIRAN<sup>®</sup> offers the best solution for transparency, quality and security requirements. The combination of SCHOTT radiation shielding glasses RD 30<sup>®</sup> or RD 50<sup>®</sup> with SCHOTT AMIRAN<sup>®</sup> ensures the well-known protection against radiation and provides a clear view especially in the examination area. The anti-reflective radiation shielding laminated glass is only slightly thicker than the actual radiation shielding glass and is easy to clean on both sides.

## High coating resistance

The anti-reflective coating AMIRAN<sup>®</sup> is applied in a special production process using a sol-gel dipping process. Different base substrates are dipped in different metal oxide solutions and thus only nanometers thick optical layers are applied, which are then permanently burned in at very high temperatures (450 °C to 500 °C) ("hard coating"). The result is an anti-reflective coating with the highest chemical and mechanical stability.

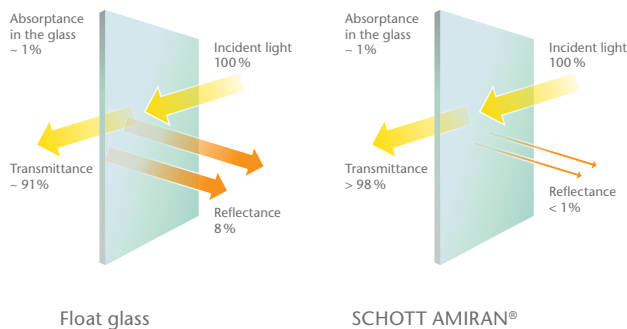


## Quick and easy cleaning

To prove this stability in the medical environment, AMIRAN<sup>®</sup> was tested for its resistance with a wide range of common disinfectants and cleaning agents – more than 30 substances were used in the standard test according to UB MED guideline MFR 890/009. The robust anti-reflex coating AMIRAN<sup>®</sup> has successfully passed the test without affecting the coating for the majority of the tested substances.

## At a glance

- Reduction of residual reflection by more than 90 %
- High transmission (93 %)
- High mechanical and chemical resistance ensure a long service life and easy cleaning
- Almost invisible and color neutral enables a perfect viewing
- Best possible protection of the RD glasses also in the construction as laminate
- Glass structure made of AMIRAN<sup>®</sup>/PVB/RD glass/PVB/AMIRAN<sup>®</sup>



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glass made of ideas